

1642

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/373,403

DATE: 03/14/2001
TIME: 10:49:57

Input Set : A:\P1099C1 a.txt
Output Set: N:\CRF3\03142001\I373403.raw

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See p. 5

3 <110> APPLICANT: ARATHOON, W. R.
4 CARTER, P.J.
5 MERCHANT, A.M.
6 PRESTA, L.G.
8 <120> TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
9 HETEROMULTIMERIC AND COMMON COMPONENTS
11 <130> FILE REFERENCE: P1099C1 a
13 <140> CURRENT APPLICATION NUMBER: US 09/373,403
14 <141> CURRENT FILING DATE: 1999-08-12
16 <150> PRIOR APPLICATION NUMBER: US 08/850,058
17 <151> PRIOR FILING DATE: 1997-05-02
19 <160> NUMBER OF SEQ ID NOS: 26
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 36
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Mutant
29 <400> SEQUENCE: 1
30 ctcttcccga gatgggggca ggggtgcacac ctgtgg 36
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 21
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Mutant
40 <400> SEQUENCE: 2
41 ctcttcccga catgggggca g 21
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 21
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Mutant
51 <400> SEQUENCE: 3
52 ggtcatctca caccgggatg g 21
54 <210> SEQ ID NO: 4
55 <211> LENGTH: 24
56 <212> TYPE: DNA
57 <213> ORGANISM: Artificial sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Mutant
62 <400> SEQUENCE: 4
63 cttggtcata cattcacggg atgg 24
65 <210> SEQ ID NO: 5
66 <211> LENGTH: 30
67 <212> TYPE: DNA

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68 <213> ORGANISM: Artificial sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Mutant
73 <400> SEQUENCE: 5
74 ctcttcccgga gatgggggac aggtgtacac 30
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 21
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Mutant
84 <400> SEQUENCE: 6
85 gccgtcggaa cacagcacgg g 21
87 <210> SEQ ID NO: 7
88 <211> LENGTH: 39
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Mutant
95 <400> SEQUENCE: 7
96 ctgggagtct agaacgggag gcgtggtaca gtagttggt 39
98 <210> SEQ ID NO: 8
99 <211> LENGTH: 33
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Mutant
106 <400> SEQUENCE: 8
107 gtcggagtct agaacgggag gacaggtctt gta 33
109 <210> SEQ ID NO: 9
110 <211> LENGTH: 21
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Mutant
117 <400> SEQUENCE: 9
118 gtcggagtct agacagggag g 21
120 <210> SEQ ID NO: 10
121 <211> LENGTH: 21
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Mutant
128 <400> SEQUENCE: 10
129 gccgtcggag ctcagcacgg g 21
131 <210> SEQ ID NO: 11
132 <211> LENGTH: 24
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial sequence

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136 <220> FEATURE:
137 <223> OTHER INFORMATION: Mutant
139 <400> SEQUENCE: 11
140   gggaggcgtg gtgctgtagt tggt 24
142 <210> SEQ ID NO: 12
143 <211> LENGTH: 38
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Mutant
150 <400> SEQUENCE: 12
151   gttcaggtgc tgggctcggg gggcttgtgt gagttttg 38
153 <210> SEQ ID NO: 13
154 <211> LENGTH: 821
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Mutant
161 <400> SEQUENCE: 13
162   aacgcgtacg ctctgaaat ggcggacccg aaccgttttc gtggtaaaga 50
164   tctggctgca cactacggcc agccgcggga acctcaggtg tataccctgc 100
166   caccgtctcg agaagaaatg actaaaaacc aggtctctct gtggtgcctg 150
168   gtcaaagggt tctatccgag cgatatacgc gtggaatggg aaagcaacgg 200
170   tcaaccggaa aacaactaca aaaccactcc accggtgctg gattctgatg 250
172   gctccttctt tctgtattcg aagctgaccg ttgacaaaag ccgttggcag 300
174   caaggcaacg ttttcagctg ttctgttatg cagaggcct tgcacaacca 350
176   ctacaccagc aaaagcctgt ccctgtctcc cgggaaataa gctgaggctc 400
178   ctctagaggt tgaggtgatt ttatgaaaaa gaatatcgca tttcttcttg 450
180   catctatgtt cgttttttct attgctacaa acgcgtacgc tgggcagccc 500
182   cgagaaccac aggtgtacac cctgccccca tcccgggaag agatgaccaa 550
184   gaaccaggta agcttgtact gcctgggtcaa aggtttctat cccagcgcga 600
186   tcgccgtgga gtgggagagc aatgggcagc cggagaacaa ctacaagacc 650
188   acgcctcccg tgetggactc cgacggctcc ttcttctctt acagctttct 700
190   caccgtcgac aagagcaggt ggcagcaggg gaacgtcttc tcatgctccg 750
192   tgatgcatga ggctctgcac aaccactaca cgcagaagag cctctccctg 800
194   tctccgggta aataggggcc c 821
196 <210> SEQ ID NO: 14
197 <211> LENGTH: 50
198 <212> TYPE: PRT
199 <213> ORGANISM: Artificial sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Recombinant
204 <400> SEQUENCE: 14
205   Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu
206     1           5           10           15
208   Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
209           20           25           30
211   Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
212           35           40           45

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214 Lys Leu Thr Val Leu
215                               50
217 <210> SEQ ID NO: 15
218 <211> LENGTH: 50
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Recombinant
225 <400> SEQUENCE: 15
226 Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu
227   1                               5                               10                               15
229 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
230                               20                               25                               30
232 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
233                               35                               40                               45
235 Lys Leu Thr Val Leu
236                               50
238 <210> SEQ ID NO: 16
239 <211> LENGTH: 50
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Recombinant
246 <400> SEQUENCE: 16
247 Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu
248   1                               5                               10                               15
250 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
251                               20                               25                               30
253 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
254                               35                               40                               45
256 Lys Leu Thr Val Leu
257                               50
259 <210> SEQ ID NO: 17
260 <211> LENGTH: 50
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Recombinant
267 <400> SEQUENCE: 17
268 Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu
269   1                               5                               10                               15
271 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
272                               20                               25                               30
274 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
275                               35                               40                               45
277 Lys Leu Thr Val Leu
278                               50
280 <210> SEQ ID NO: 18
281 <211> LENGTH: 50

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Input Set : A:\P1099C1 a.txt
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282 <212> TYPE: PRT
283 <213> ORGANISM: Artificial sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Recombinant
288 <400> SEQUENCE: 18
289 Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu
290 1 5 10 15
292 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
293 20 25 30
295 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
296 35 40 45
298 Lys Leu Thr Val Leu
299 50
301 <210> SEQ ID NO: 19
302 <211> LENGTH: 50
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Recombinant
309 <400> SEQUENCE: 19
310 Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Ser Thr Ala Ser Leu
311 1 5 10 15
313 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
314 20 25 30
316 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
317 35 40 45
319 Lys Leu Thr Val Leu
320 50
322 <210> SEQ ID NO: 20
323 <211> LENGTH: 50
324 <212> TYPE: PRT
325 <213> ORGANISM: Artificial sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Recombinant
330 <220> FEATURE:
331 <221> NAME/KEY: Unsure
332 <222> LOCATION: 9
333 <223> OTHER INFORMATION: Unknown amino acid
335 <400> SEQUENCE: 20
W--> 336 Ser Asn Arg Phe Ser Gly Ser Lys Xaa Gly Asn Thr Ala Ser Leu
337 1 5 10 15
339 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
340 20 25 30
342 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr
343 35 40 45
345 Lys Leu Thr Val Leu
346 50
348 <210> SEQ ID NO: 21
349 <211> LENGTH: 50

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\P1099C1 a.txt
Output Set: N:\CRF3\03142001\I373403.raw

L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26